

1	<b>INK JET</b>	43	...Color type
2	..Combined	44	..Discharge means
3	..Reproduction (e.g., facsimile, copier, etc.)	45	...Surface treated
4	..With conveyed object	46	...Free surface
5	..Controller	47	...Nozzles
6	..Of fluid (e.g., ink flow rate, viscosity, etc.)	48	..With plural transducers
7	...Fluid content (e.g., moisture or solvent content, ink refilling, liquid level)	49	..Modular
8	..Of spacing between fluid ejector and receiving medium	50	..Electrical connector means
9	..Of ejector	51	..Optical energy acting on fluid
10	...Drive waveform	52	..Electron beam acting on fluid
11	....Plural pulses	53	..Magnetic
12	...Array	54	..Drop-on-demand
13	....Full-line array	55	...With electric field ejection (applied to fluid)
14	...Responsive to condition	56	...With thermal force ejection
15	...Creating plural tones	57	....Drive signal application
16	..Of medium	58	.....Wiring
17	..Of temperature or pressure of device or component thereof	59	.....Integrated
18	...With particular cooling means	60	....Preheat
19	..Measuring and testing (e.g., diagnostics)	61	....Thermal force generators
20	..Ejector mechanism (i.e., print head)	62	.....Resistor specifics
21	..With additional fluid	63	....Composite ejector
22	..With cleaning or protector	64	.....Protective
23	...Responsive to condition	65	.....Flow path
24	...For color	66	....Head separate from fluid supply
25	...Gas	67	....With additional feature
26	...Heat	68	...With piezoelectric force ejection
27	...Vibration	69	....Shear mode
28	...Solvent	70	....With vibratory plate
29	...Nozzle cap, cover, or protection	71	....Layers, plates
30	....Suction	72	.....Plural piezoelectric laminate
31	....Absorber	73	..Continuous stream (includes dispersion)
32	....Movement	74	...With individual drop generation and/or control
33	...Wiping	75	....Drop generation means
34	...Mist or dust removal	76	....Drop charge means
35	...Purging without a cap	77	....Drop deflection means
36	...Waste storage	78	....Drop correction
37	..With means to scan fluid ejector relative to the receiving medium	79	.....Charge compensation
38	...With rotary motion	80	.....Synchronization of drop separation and charge time
39	...With oscillatory motion	81	.....Drop sensors
40	..Array of ejectors	82	...With stream deflection
41	...Interlace	83	...With aerosol formation
42	...Full-line type	84	..Fluid or fluid source handling means
		85	..Fluid supply system
		86	...Cartridge
		87	....With integral ejector

88	...For hot-melt fluid (e.g., phase-change)	126	.....Modified or specific fluid (e.g., heated, dehumidified, specified gas)
89	...With recirculation		
90	....Collector's or catcher's specifics	127	....Laminated head including charged particle generation layer
91	....With carrier		
92	..With means to remove and/or accommodate bubbles in the fluid	128	...Including driving circuitry
		129	..Photo scanning
		130	...Light emitting diodes
93	..With fluid treatment (e.g., filtering)	131	...Dot density or dot size control (e.g., halftone)
94	..With means to reduce vibration in the fluid (damping)	132	...Beam generator driving means
95	..Fluid (e.g., fluid specifics)	133	....Having feedback or environmental control
96	...Reactive		
97	...Gas	134	...Optical elements interposed between record receiver and beam generator
98	...Colorless		
99	...Hot-melt (e.g., phase-change)	135	....Light intensity modulation means
100	...Ink		
101	..Medium and processing means	136	.....Shutter device
102	..Drying or curing	137	....Lens
103	..Transfer of fluid to another record medium	138	...Housing or mounting
		139	...Record receiver or conveyor means therefor
104	..Physical handling		
105	..Receiving medium	140	...Developer or charger mechanism
106	...Physical characteristics	141	..Specific electrostatic head
107	..With unique pattern	142	...Signal switching
108	..Housing	143	....Amplitude modulation
109	..Hand-held	144	....Time based modulation (e.g., pulse width, duty cycle, rise time)
111	<b>ELECTRIC MARKING APPARATUS OR PROCESSES</b>		
112	..Electrostatic	145	....Block driving
113	..Thermoplastic	146	...Character wheel
114	..Electrothermographic	147	...Specific head tip
115	..Multicolor	148	...Printed circuit or wiring
116	...Registration	149	...Spacing or pressure
117	...Plural heads	150	...Composition
118	....Using light as exposure means	151	...Using recording head to selectively charge toner
119	...Single head using light as exposure means		
120	..By information carrying flow of invisible charged particles	152	..Housing or mounting
121	...Electron beam generator with air tight envelope	153	..With medium for receiving an image or feeding means therefor
122	....Including latent image generation using luminescent material	154	...Endless web or belt for the latent image
		155	...Pre or post treatment
123	...Specific ionographic head	156	....Fixing or fusing
124	....Including simultaneous development	157	...Including cutter means
		158	...Including toner delivery means
125	....Fluid assisted charged particle flow or generation	159	..By electrical discharge (e.g., spark)
		160	..Rotary head support

161	..Electrical discharge burning (e.g., oxidation or electroerosion)	198	..Adjustable
162	..Including driving circuitry	199	.Electroconductive recording means
163	.By electrochemical	200	.Specific resistance recording element type
164	..With record receiver or handling means therefor	201	..Edge or end face type
165	...Including treating means	202	..Glazed layer
166	..Specific head	203	..Protective layer
167	...Including motor for driving head	204	..Heat resistance layer
168	...Including driving circuitry	205	..Head substrate
169	...Helix drum	206	..Heating resistive elements
170	..Housing or mounting	207	..Having auxiliary means for conducting heat
171	<b>THERMAL MARKING APPARATUS OR PROCESSES</b>	208	..Specific conductor means (e.g., electrode, conducting pattern, etc.)
172	.Multicolor	209	...With means for driving or supplying current to the resistive heating elements
173	..Single pass	210	....Including switching means
174	..Single-head type (e.g., multipass)	211	.Having driving circuitry for recording means
175	...Having multilayers colored transfer material	212	.Pre or post image recording treatment
176	...Having single layer colored transfer material	213	.Having an intermediate medium for transferring ink
177	....Including sensor means	214	.Ink cassette or cartridge
178	.....For detecting color	215	.Record receiver and transfer medium feeding or driving means
179	.With correction or erasing means	216	..Including separating means
180	.Block driving	217	.With transfer medium or driving means therefor
181	..Simultaneously	218	.Record receiver driving means
182	..Sequentially	219	..Including tensioning means
183	.Gradational recording	220	.Platen or engaging means therefor
184	..Look up table	221	.With recording medium
185	.Preheating	222	.Housing or mounting
186	..Recording means	223	.Including cooling device
187	..Transfer material or recording medium	224	<b>LIGHT OR BEAM MARKING APPARATUS OR PROCESSES</b>
188	.Density control	225	.Scan of light
189	..In accordance with ambient temperature	226	..Cathode ray device
190	..By number of heated recording elements	227	...With record receiver in an evacuated enclosure
191	..In accordance with thermal output characteristic of the recording means	228	...Having developing means
192	..By variation in power supply	229	...Synchronization of light with record receiver
193	..By transfer material or record receiver	230	...Having optical means interposed between the screen of the cathode ray device and the record receiver
194	..In accordance with temperature of the recording means	231	...Having deflecting means
195	..By history of recording elements	232	..Multicolor
196	...Using pulse width modulation		
197	.Recording means engaging or holding means		

233 ..Plural beam scan  
234 ...Synchronization of light with  
medium  
235 ...Scan synchronization (e.g.,  
start-of-scan, end-of-scan)  
236 ...Feed back of light for  
intensity control  
237 ...Driving circuitry  
238 ...Specific light source (e.g.,  
LEDs assembly)  
239 ...Specific light modulator  
240 ...Tone marking  
241 ...Specific optical structure  
242 ....Having mounting or supporting  
means  
243 ....Including deflector  
244 ....Specific lens  
245 ...Housing or mounting  
246 ..Feedback of light for intensity  
control  
247 ..Driving circuitry  
248 ..Synchronization of light with  
medium  
249 ...By clock deviation  
250 ..Scan synchronization (e.g.,  
start-of-scan, end-of-scan)  
251 ..Tone marking  
252 ...By adjusting pulse width of  
light beam  
253 ...By varying intensity of light  
beam  
254 ...By varying dotting density  
255 ..Specific light modulator  
256 ..Specific optical structure  
257 ...Having mounting or supporting  
means  
258 ...Having lens  
259 ....Including deflector  
260 ...Having deflector  
261 ....Polygon  
262 ..With record receiver or  
handling means therefor  
263 ..Housing or mounting  
264 .With record receiver or handling  
means therefor  
110 **MARKING DEVICES**

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